Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application. The following amendments do not constitute an admission regarding the patentability of the amended subject matter and should not be so construed. Applicants reserve the right to pursue the cancelled subject matter in this or any other appropriate patent application. Applicants believe that the following amendments add no new matter.

Please amend the Claims as follows:

1. **(Currently amended)** A ~~vaccine~~ composition containing human TGFα "hTGFα", wherein said hTGFα comprises the amino acid sequence of SEQ ID NO 2 or its combination with other EGF-R ligands, coupled with ~~any~~ a carrier protein by genetic cloning before expression of said proteins or by chemical conjugation after expression of said proteins, wherein said ~~vaccine~~ composition contains an adjuvant, wherein said ~~vaccine~~ composition is able to produce a specific immune response against said hTGFα, and wherein said carrier protein is P64k.

2. **(Currently amended)** The ~~vaccine~~ composition according to claim 1 containing recombinant human TGFα.

3. **(Canceled)**

4. **(Currently amended)** The ~~vaccine~~ composition according to claim 1 that contains a recombinant fusion protein between hTGFα and P64k wherein a ~~gene~~ nucleic acid sequence encoding said fusion protein is cloned in an expression vector system and expressed in mammalian cells, bacteria or yeast.

5. **(Currently amended)** The ~~vaccine~~ composition according to claim 1 that contains a recombinant fusion protein between hTGFα and P64k wherein a ~~gene~~ nucleic acid sequence encoding said fusion protein is cloned in an expression vector of bacteria and expressed in E. coli.

6. **(Currently amended)** The ~~vaccine~~ composition according to claim 1 that contains a recombinant fusion protein between hTGFα and P64k wherein a ~~gene~~ nucleic acid sequence encoding said fusion protein is cloned in an expression vector of bacteria that presents a genetic sequence coding for six histidines in the N-terminal end of P64k and is expressed in E. coli.

7. **(Currently amended)** The ~~vaccine~~ composition according to claim 1 wherein hTGFα and P64k are coupled by a chemical method.

8-11. **(Canceled)**

12. **(Currently amended)** The ~~vaccine~~ composition according to claim 1 wherein the adjuvant is incomplete adjuvant of Freund.

13. **(Currently amended)** The ~~vaccine~~ composition according to claim 1 wherein the adjuvant is $Al(OH)_3$.

14. **(Withdrawn)** A method of immunization comprising, administration of the ~~vaccine~~ composition according to claim 1, wherein administration of the ~~vaccine~~ composition achieves specific antibodies against hTGFα.

15. **(Withdrawn)** The method according to claim 14, wherein anti-hTGFα antibodies are generated, which anti-hTGFα antibodies are capable of inhibiting binding of TGFα to its receptor in an in vitro experiment.

16. **(Withdrawn)** The method according to claim 14, wherein anti-hEGF antibodies are generated.

17. **(Withdrawn)** The method according to claim 14, wherein anti-hTGFα antibodies are generated, which anti-hTGFα antibodies are able to recognize TGFα in human tumor biopsies.

18. **(Withdrawn)** A method of treating a malignant disease, wherein the malignant disease is selected from among epidermoide breast carcinomas, prostate cancers, gastric cancers, and ovary epithelial cancer, which cancer expresses hTGFα and other ligands of EGF-R, comprising administering the ~~vaccine~~ composition of claim 1.

19. **(Canceled)**